Model Papers MEDICAL LAB TECHNICIAN

MODEL QUESTION PAPER PAPER- I I YEAR BIO-CHEMISTRY

Time: 3 Hours Max. Marks: 50

Section - A

Note: (i) Answer all the Questions

(ii) Each Question carries 2 marks

 $10 \times 2 = 20$

- 1. What are different routes of blood collection?
- 2. Define the terms: a) Molarily b) Normality
- 3. What are the normal values of: a) Blood Urea b) Serum creatinine
- 4. Define corrosives and give examples
- 5. Mention different methods of blood sugar determination
- 6. Explain the terms : a) Hypoglycaemia b) Glycosuria
- 7. What are different types of urine specimens?
- 8. Define Quantities and Units
- 9. What is a lab register?
- Mention Fat soluble Vitamins.

Section - B

Note: (i) Answer any five Questions

(ii) Each Question carries 6 marks

- 11. Classify carbohydrates and explain biological importance
- 12. Write about determination of blood urea.
- 13. Give short notes on:
 - a) Purity of chemicals b) Scope of Biochemistry
- 14. What are different urine specimens? Write about collection of 24 hours urine specimen
- 15. Classify solutions based on methods of expressing concentration.
- 16. Name the causatives of lab accidents. Write about prevention, safety and first aid in accidents caused by acids.
- 17. Classify Vitamins. What are the diseases caused by deficiency of different minerals?
- 18. Explain the method of determination of urine urea.

MICROBIOLOGY & PATHOLOGY PAPER - II

Time: 3 Hours Max. Marks: 50

Section - A

Note: (i) Answer all the Questions

(ii) Each Question carries 2 marks

 $10 \times 2 = 20$

- 1. Define sterilization and Disinfectant
- 2. Explain the principle of Flourescent Microscope
- 3. Flagella and Spore.
- 4. Robert Koch
- 5. Gram staining
- 6. What is liquefaction of semen
- 7. Mention different varieties of body fluids
- 8. What is polyurea and Haemturia
- 9. Give examples for Granular leucocytes.
- 10. Expand MCV and MCHC

Section - B

Note: (i) Answer any five Questions

(ii) Each Question carries 6 marks

- 11. Mention the varieties of collection blood and expalin merits and demerits for one.
- 12. Write the importance of Microscopic Examination of Urine.
- 13. Explain the physical examination of sputum
- 14. Write the importance of Gaseous method of sterilization.
- 15. Enrich Media and its importance.
- 16. Explain the processing of Microbiology clinical specimen
- 17. Maintenance of compound Microscope.

ANATOMY & PHYSIOLOGY

THEORY - PAPER - III MODEL QUESTION PAPER Ist YEAR MLT VOCATIONAL

Time: 3 hours Max.Marks: 50

Section - A

Note:	(i) Answer all the Questions	10 x 2 = 20
	(ii) Each Question carries 2 marks	

- 1. Define Anatomy & Physiology
- 2. Mention the varieties of tissues in our body.
- 3. Write the functions of saliva.
- 4. What is Dextro Cardia.
- 5. List the Proximal Row Carpal Bones
- 6. What is Meninges
- 7. What are the Exocrine Glands.
- 8. Write the surfaces of kidney.
- 9. Mention the parts of Fallopian Tubes.
- 10. Write names of the following Nerves & arteries
 - a) 7th Cranial nerve
 - b) 4th cranial Nerve
 - c) Blood supply to liver
 - d) Heart

Section - B

Note: (i) Answer any five Questions 5 x 6 = 30 (ii) Each Question carries 6 marks

- 11. Draw the Neat and Labelled diagram of heart and explain coronary circulation.
- 12. Write the classification of Bones with examples and mention the functions of Bones
- 13. Define organ write the organs present in Respiratory system and explain one in detail.

- 14. Draw the diagram of Skin and write the functions of skin.
- 15. Draw the labelled structure of stomach and explain the functions of liver.
- 16. Write the composition of blood and functions of blood.
- 17. a)List the Endocrine glands.
 - b) Write short notes on
 - 1) Uterus
 - b) Tonsils
 - c) Appendix

MODEL QUESTION PAPER THEORY IIND YEAR (MLT) BIO - CHEMISTRY

Time: 3 hours Max.Marks: 50

Section - A

Note: (i) Answer all the Questions

 $10 \times 2 = 20$

- (ii) Each Question carries 2 marks
- 1. What are transaminases? Give examples.
- 2. Write the clinical application of chromatography and electrophoresis.
- 3. Name different hormones assayed by RIA.
- 4. Write the principle of Flomephotometry.
- 5. Define a) Glycolysis b) Urea cycle
- 6. Mention various clearance tests done to asses renal functioning.
- 7. Give the principle of vanden bergh test.
- 8. What is quality assurance? Explain internal quality control.
- 9. Mention Lipioprofile tests.
- 10. What are different types of autoanalyers, used in a biochemical laboratory.

Section - B

Note: (i) Answer five Questions

(ii) Each Question carries 6 marks

- 11. Write about determination of Glycosy lated haemoglobin and its clinical importance.
- 12. Write the mechanism of enzyme action. How do you classify enzymes?
- 13. Explain abnormal bilirubin metabolosm.
- 14. List out various gestric functiona tests. Write about tubeless gartric analysis.

- 15. How do you determine serum amylase? Give the principle, requirements and methods.
- 16. Discuss about automation in a biochemical laboratory.
- 17. Define primary standard and secondary standard classify different titrimetric methods.
- 18. Explain basic principles of immuno chemical rection. Write about RIA of T4.

MICROBIOLOGY - II

Time: 3 hours Max.Marks: 50

Section - A

Note: (i) Answer all the Questions

 $10 \times 2 = 20$

- (ii) Each Question carries 2 marks
- 1. Explain ELISA & RIA
- 2. Causative Organism for Cholera and Diptheria.
- 3. Antigen and Antibody
- 4. Vaccines importance
- 5. Euthensia-explain
- 6. Common Lab Animals
- 7. Define Immunity
- 8. Principle of stock culture
- 9. Morphology of Gonococi
- 10. Importance of Mycology

Section - B

Note: (i) Answer five Questions

(ii) Each Question carries 6 marks

- 11. Write Morphology and lab diagnosis of E. Histolylica.
- 12. Antitbiotic sensitivity Test
- 13. Explain the layout of Animal House
- 14. Write about Disposal of Animal Waste
- 15. Importance and classification of Vaccines.
- 16. Food-Bacteriological importance.
- 17. Write Short Notes on
 - 1) Candidasis
 - 2) Pencillin
 - 3) Actinomyes

PATHOLOGY IInd YEAR

Time: 3 hours Max.Marks: 50

Section - A

Note: (i) Answer all the Questions

 $10 \times 2 = 20$

- (ii) Each Question carries 2 marks
- 1. Mention specimen collection site for Bone Marrow Examination.
- 2 Expand PAS and APTT
- 3. Write the principle for sickle cell preparation.
- 4 What are the Methods of estimation of Bleeding time.
- 5. Define Autopsy
- 6 Write the varieties of Microtomes
- 7. Explain the character of Blood Donar.
- 8. What is Regressive stain
- 9. What is Mordant
- 10. Composition of Leishman stain

Section - B

- **Note:** (i) Answer five Questions
 - (ii) Each Question carries 6 marks

- 11. Automatic tissue processing, explain.
- 12 Blood grouping procedure and its importance.
- 13. Identification of Microfilaria
- 14. Write the Principle and clinical significance of sickle cell preparation.
- 15. Explain - preservation of specimen
- 16. Coumb test - direct method, explain.
- Write the Identical features feather of Microfilaria. 17.

LIST OF SUBJECT COMMITTEE MEMBERS OF PARAMEDICAL COURSES

I. Medical Lab Technician

1. Dr. Aruna Raja Kumari : Retired Professor,

Gandhi Medical College,

Secunderabad

2. Dr. Durga K. : Associate Professor,

Department of Pathology,

Gandhi Medical College,

Secunderabad.

3. Dr. Sreelatha. S. : Profssor, Department of Anatomy

4. Mr. Srinivas : Vocational Juniorj Lecturer,

A.S.R. Junior Colelge,

Shantinagar

5. Dr. Jaya Kumar K.P. : Vocational Junior Lecturer,

B.S.S.K. GJC., Chittoor

6. Smt. A.M.Sandhya Rani : Co-ordinator

Reader SIVE % CIE